

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

Date/Time: November 5, 2003 / 9:30 am

Site Contact(s): Chris Gilbreath, Sarah Roberts
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Regulatory Contact: Denise Onyskiw
Phone: 303-692-3371
Agency: CDPHE

Purpose of Contact: Pre-Demolition Survey of B771/B774 Roof

Discussion

A verbatim Final Survey cannot be performed on the 771/774 roof due to the material type (tar/gravel), which cannot be readily scanned for surface activity. Below is a summary of the samples that have been collected to date:

- 20 media samples collected in 2001
- 3 of 30 samples exceeded 100 dpm/100 cm², but were less than 300 dpm/100 cm²
- results were likely skewed due to high sample weight (maximum pCi/g result 0.34 pCi/g Am and Pu, sample mass at same location 470 grams)
- the 3 elevated locations were re-sampled in 2003. In order to minimize skewness of the data, each roof layer was separated and analyzed separately. In addition, the samples were allowed to dry.
- all results at these 3 locations were less than 100 dpm/100 cm²

Alternative survey methods that have been evaluated include the following:

1) In-situ gamma spectroscopy

This method was not successful due to interference from inside the building (i.e., gamma activity from sources inside the building result in an elevated background at the roof surface).

2) Identification of flat, horizontal surfaces that can be surveyed via traditional methods

The only location identified that meets this description is the roof of a small addition to B774, which is 10 square meters in size.

The proposed path-forward is as follows:

Collect (15) random TSA/RSA measurements BENEATH roofing material by removing the tar/gravel layer, which will expose the base concrete and provide a suitable surface for

survey. Collect fifteen (15) random TSA/RSA measurements on the SURFACE of the roofing material beneath the gravel (a paint shaver will be used if necessary to smooth surface if necessary). Field checks of the gravel will also be performed. Provided that all results are less than the unrestricted release limits cited in the RFETS Pre-Demolition Survey Plan, Table 7-1, a PDS Report shall be issued.

Ms. Onyskiw concurred with the proposed path-forward.

Contact Record Prepared By: Chris Gilbreath

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